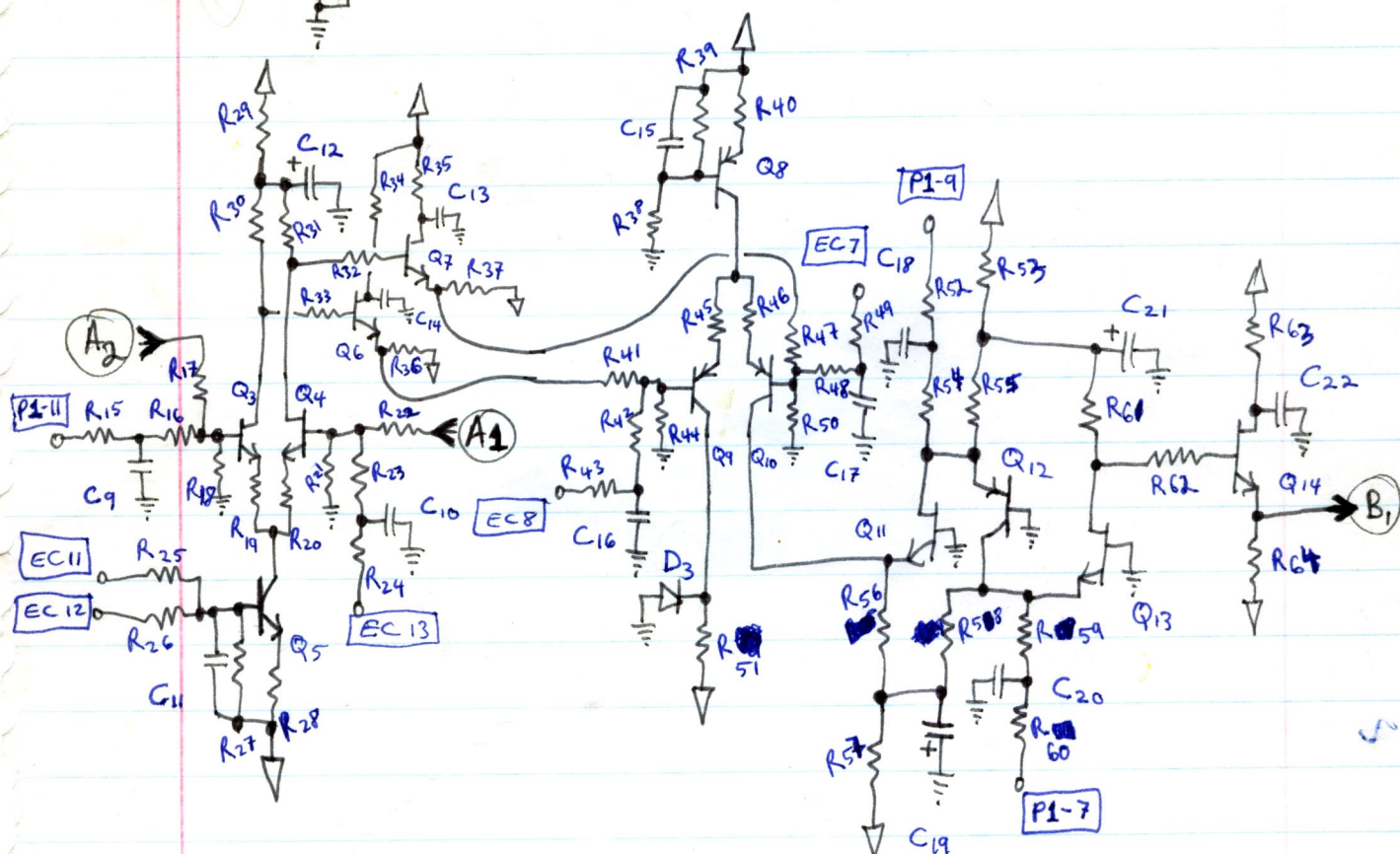
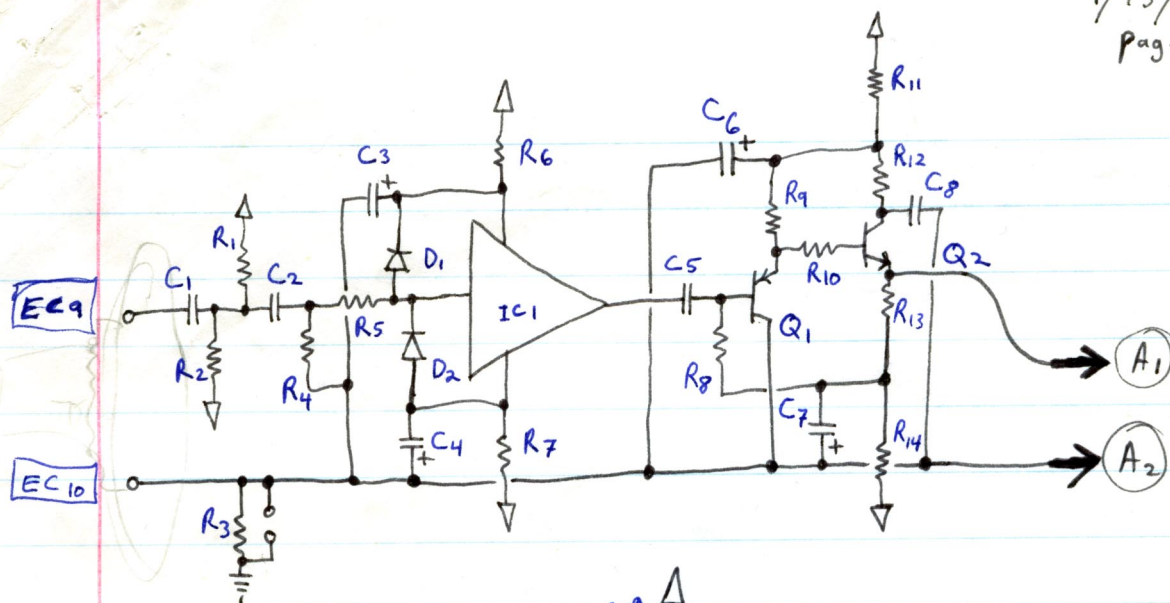


O. A. 1

9/15/81

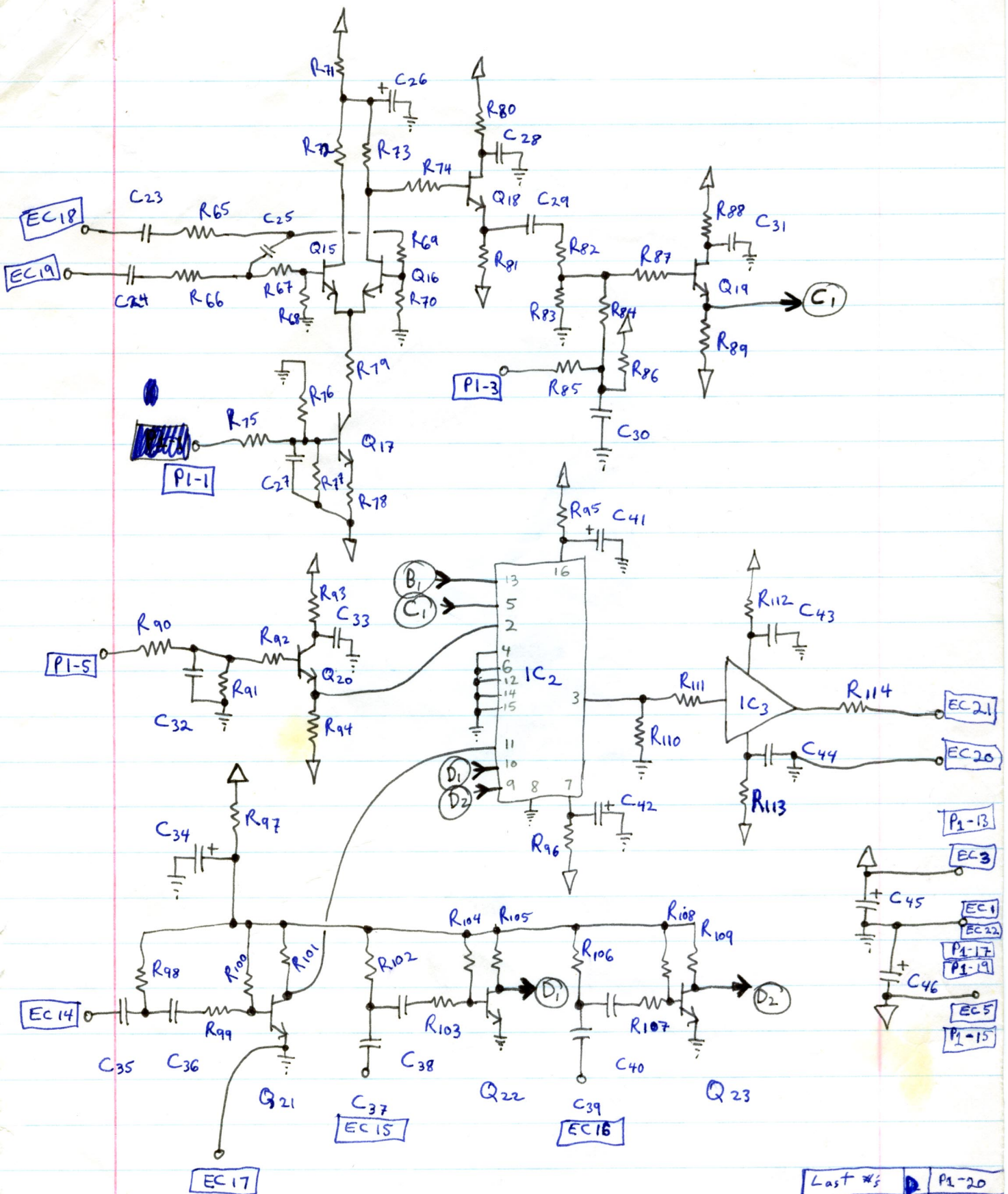
Page 1 of 2



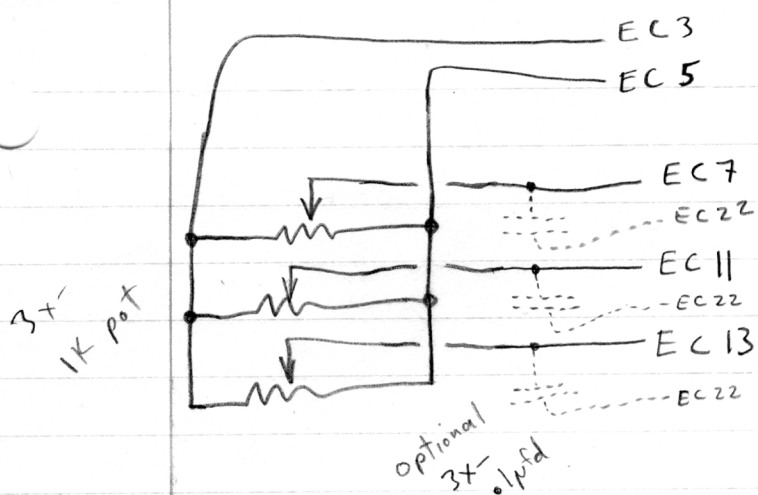
$\uparrow = +5v$

$\downarrow = -5v$

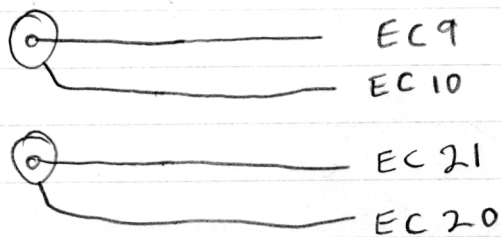
$\text{ground symbol} = \text{ground } (0v)$



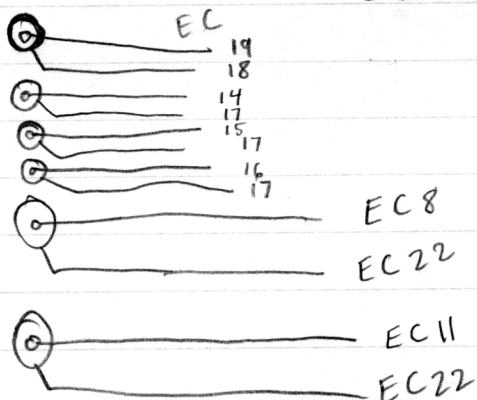
Last #'s			P1-20
R	R114	Q	Q23
C	C46	IC	IC3
D	D3	EC	EC22



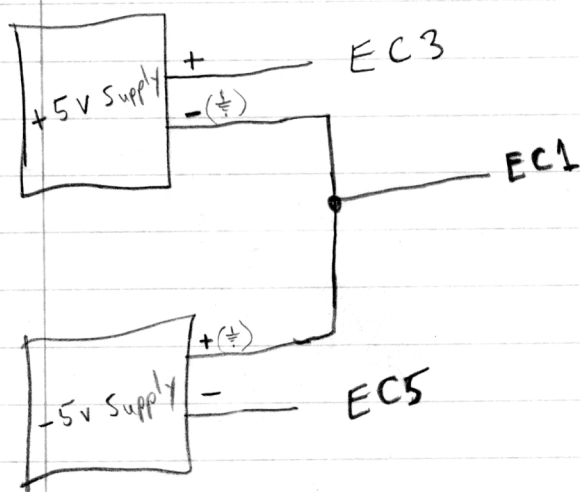
6x BNC



2x Mini-DAX



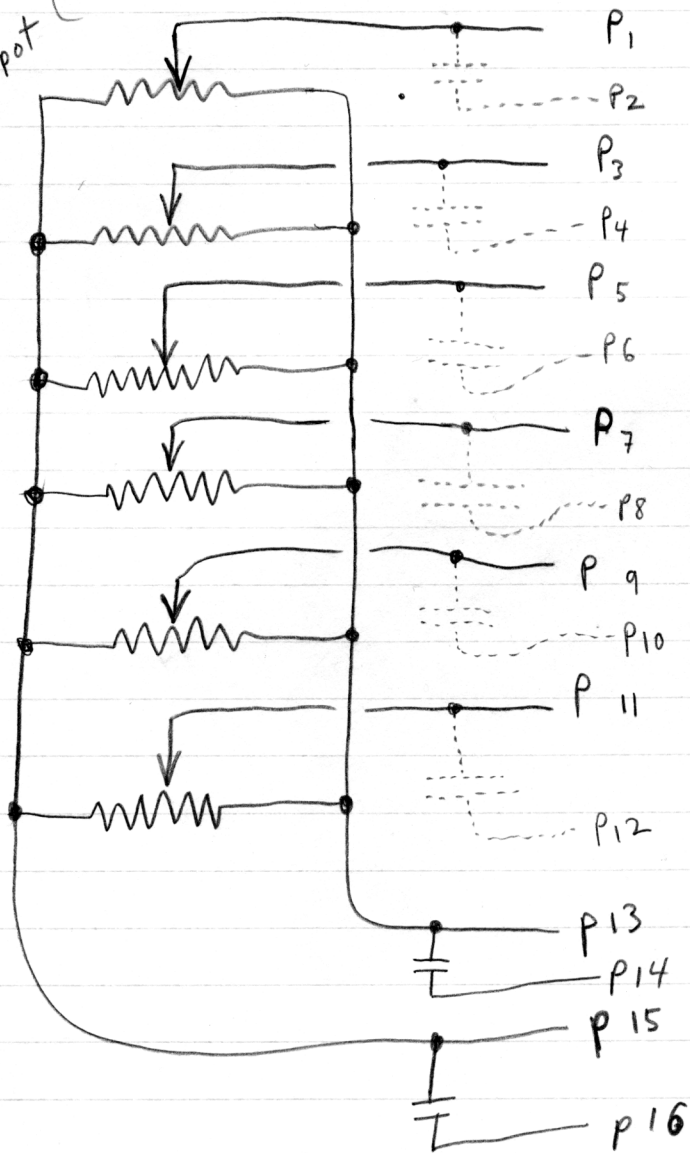
Edge Connector



6x-
1K Trimpot (10 turn)

optional
6x-
.1 μ f

Engineering
Box



2x-
.1 μ f

O.A.1

parts Count

	without input amp		"Normal"		without input amp		"Normal"
10 Ω	20		25	10p	1		1
75	1		1	.01p	7		7
100	10		11	.1	15		17
220	2		2	22	6		6
390	1		1	100	9		15
510	14		15	1N4148	1		1
560	1		1	1N270	0		2
750	1		1	LH0002CH	1		2
1K	4		6	CD4051N	1		1
1.2K	1		1	2N3904	17		18
1.5K	14		14	2N3906	4		5
2K	6		6	16 pin socket	1		1
2.2K	8		8	20 pin "berg" connector (male & female)	1		1
4.3K	1		1				
5.1K	1		2				
7.5K	1		1				
10K	2		2				
15K	1		1				
20K	6		8				
51K	1		1				
100K	4		5				

O.A. 1 parts list

(*) R ₁	20K	R ₂₁	100	R ₄₁	510	R ₆₁	510
(*) 2	20K ^{option 2}	22	510	42	1.5K	62	510
(*) 3	1K	23	2.2K	43	1.5K	63	10
(*) 4	20K	24	2.2K	44	100	64	1K
(*) 5	100K 510 100	25	100K	45	10	65	1.5K
(*) 6	10	26	100K	46	10	66	1.5K
(*) 7	10	27	100K	47	510	67	1.5K
(*) 8	100K	28	100	48	1.5K	68	100
(*) 9	5.1K	29	10	49	1.5K	69	1.5K
(*) 10	510	30	220	50	100	70	100
(*) 11	10	31	220	51	390	71	10
(*) 12	10	32	510	52	2.2K	72	1.5K
(*) 13	1K	33	510	53	10	73	1.5K
(*) 14	10	34	10	54	2.2K	74	510
15	2.2K	35	10	55	1150Ω	75	100K
16	2.2K	36	1.5K	56	561Ω	76	51.2KΩ
17	510	37	1.5K	57	10	77	7.5K
18	100	38	15K	58	530Ω	78	100
19	10	39	10K	59	2.2K	79	10
20	10	40	100	60	2.2K	80	10

(*) = for input Amp section

R ₈₁	1K	R ₁₀₁	2K	*D ₁	mod 1N270		
82	100	102	20K	*2	1N270	Q	16 2N3904
83	1.5K	103	2K	3	1N4148		17 "
84	1.5K	104	20K				18 "
85	5.1K	105	2K	*IC ₁	4H0002		19 "
86	4.3K	106	20K	2	CD4051		20 "
87	510	107	2K	3	4H0002		21 "
88	10	108	20K				22 "
89	1K	109	2K	*Q ₁	2N3906		23 "
90	10K	110	510	*2	2N3904		
91	750	111	510	3	"		
92	510	112	10	4	"		
93	10	113	10	5	"		
94	1K	114	75	6	"		
95	10			7	"		
96	10			8	2N3906		
97	10			9	"		
98	20K			10	"		
99	2K			11	2N3904		
100	20K			12	2N3906		
				13	2N3904		
				14	"		
				15	"		

* For input Amp Section

⊗ C ₁	100	C ₂₁	100	C ₄₁	100	EC ₁	$\frac{1}{\div}$
⊗ 2	100	22	.1	42	100	2	
⊗ 3	100	23	.01	43	.1	3	+5
⊗ 4	100	24	.01	44	.1	4	
⊗ 5	.1	25	10p	45	100	5	-5
⊗ 6	100	26	100	46	100	6	
⊗ 7	100	27	.1			7	ped. pot
⊗ 8	.1	28	.1	P ₁	Burst level	8	ped. mini
9	.01	29	.01	2	$\frac{1}{\div}$	9	Video in +
10	.01	30	.1	3	Burst centering	10	Video in -
11	.1	31	.1	4	$\frac{1}{\div}$	11	gain pot
12	100	32	.1	5	Sync level	12	gain mini
13	.1	33	.1	6	$\frac{1}{\div}$	13	input offset
14	.1	34	100	7	output centering	14	B.F
15	.1	35	22	8	$\frac{1}{\div}$	15	Sync
16	.01	36	22	9	Black clip	16	Blanking
17	.01	37	22	10	$\frac{1}{\div}$	17	Sync, BEG, BL. $\frac{1}{\div}$
18	.1	38	22	11	input offset	18	S.C. -
19	100	39	22	12	$\frac{1}{\div}$	19	S.C. +
20	.1	40	22	13	+5	20	output $\frac{1}{\div}$
		41		14	$\frac{1}{\div}$	21	output
		42		15	-5	22	$\frac{1}{\div}$
		43		16	$\frac{1}{\div}$		
		44		17	$\frac{1}{\div}$		
		45		18	$\frac{1}{\div}$		
		46		19	$\frac{1}{\div}$		
		47		20	$\frac{1}{\div}$		

⊗ = for input amp section

O.A.-1 option guide

"with input Amp"

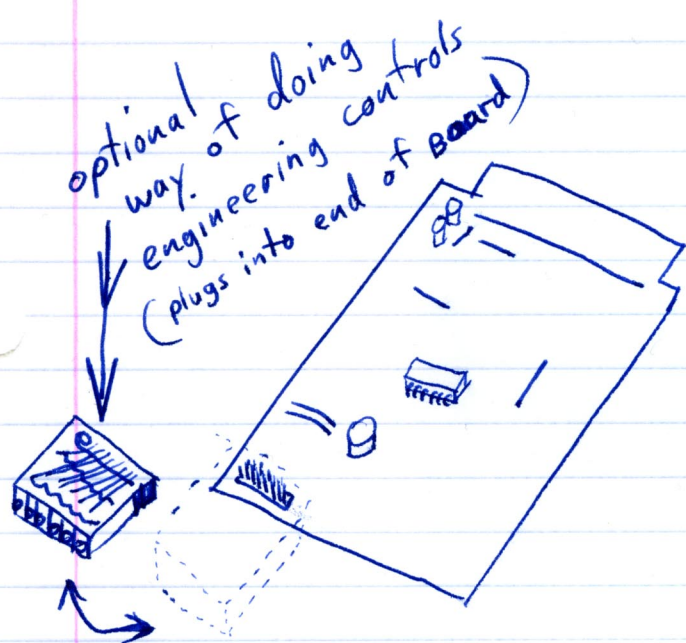
~~with input Amp~~

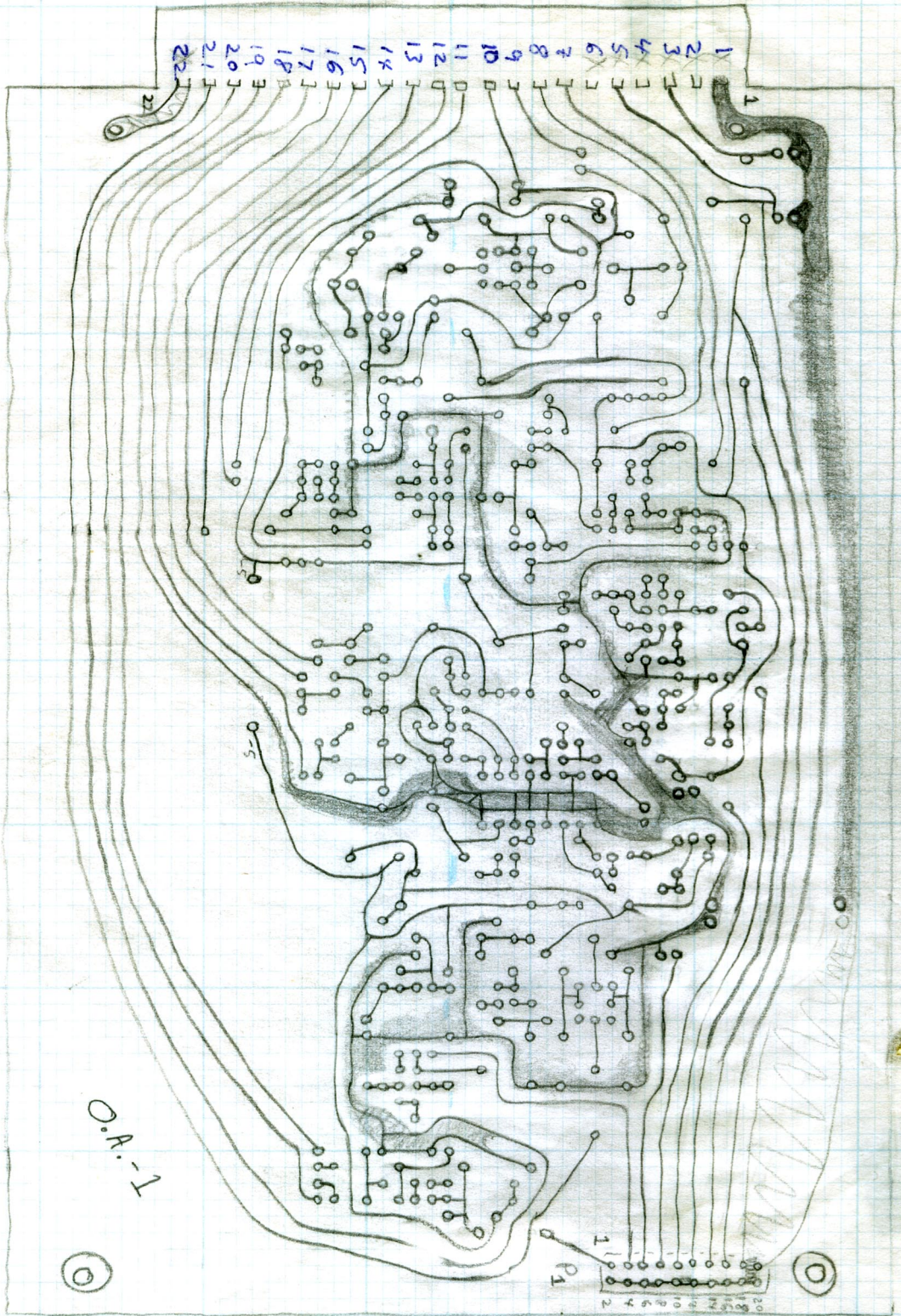
$R_1, R_3 \sim R_{114}, C_1 \sim C_{46}, D_1 \sim D_3, IC_1 \sim IC_3, Q_1 \sim Q_{23}$

"without input Amp" $R_{15} \sim R_{114}, C_9 \sim C_{46}, D_1, D_2, IC_2 \sim IC_3, Q_3 \sim Q_{23}$

"for Video input Amp"

with ~~input~~ input above +5_{DC} Move R_1 to R_2
turn C_1, C_2 around (polarity reversed)



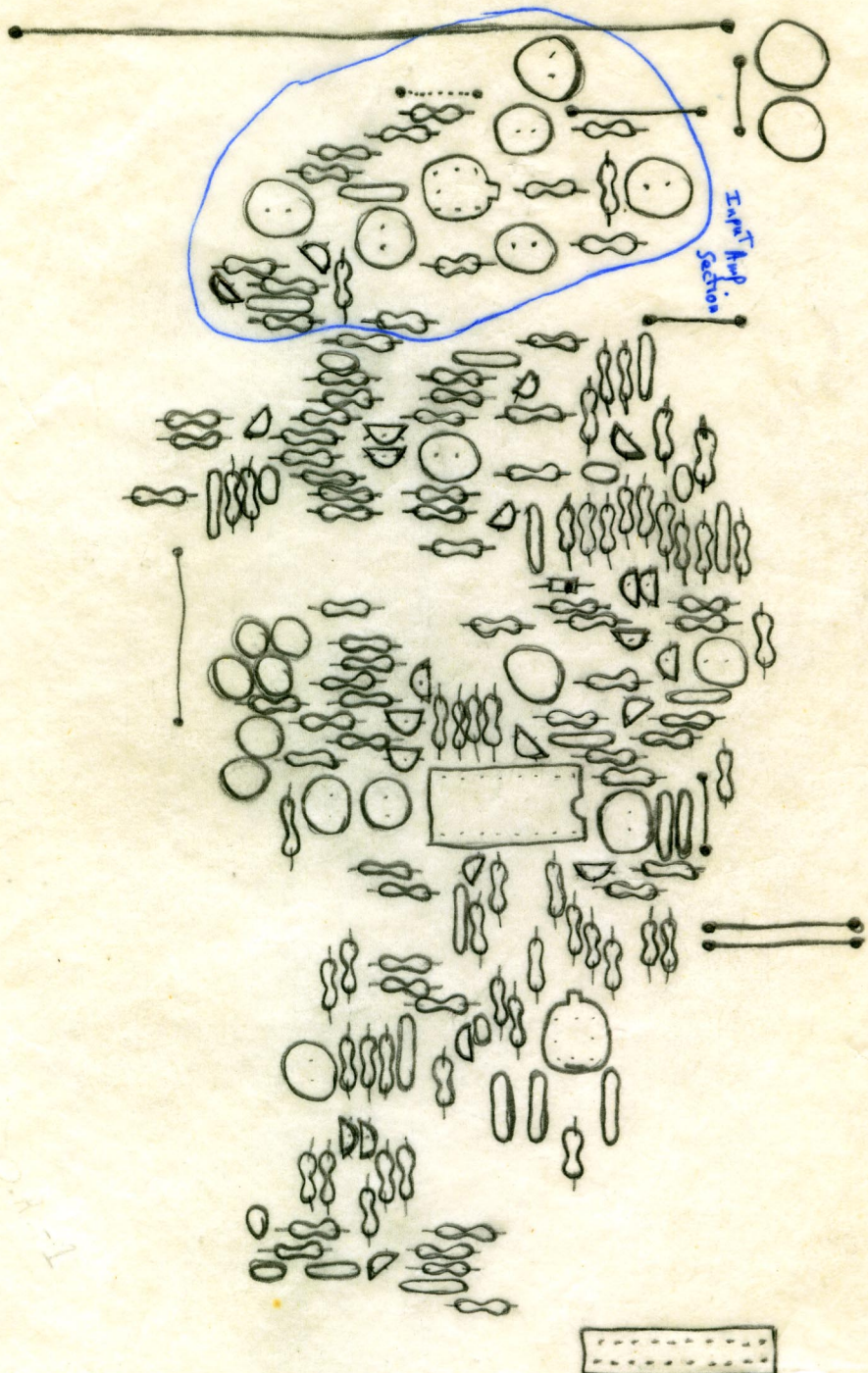


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Input and
Section

Р.

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